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STIC Biotechnology Systems Branch

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Application Serial Number: 10/520,696
Source: PCR
Date Processed by STIC: 1/31/06

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
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Revised 01/24/05



PCT

RAW SEQUENCE LISTING

DATE: 01/31/2006

PATENT APPLICATION: US/10/520,696

TIME: 15:49:49

Input Set : A:\u015575-8sequence listing.txt

Output Set: N:\CRF4\01312006\J520696.raw

3 <110> APPLICANT: MUNOZ PEREZ, Francisco Jose
 4 RODRIGUEZ LOPEZ, Milagros
 5 BAROJA FERNANDEZ, Miren Edurne
 6 POZUETA ROMERO, Francisco Javier
 7 MITSUI, Toshiaki
 8 NANJO, Yohei
 10 <120> TITLE OF INVENTION: PLANT NUCLEOTIDE SUGAR PYROPHOSPHATASE/PHOSPHODIESTERASE
 11 (NPPASE), METHOD OF PRODUCTION, USE IN THE MANUFACTURE OF TESTING
 12 DEVICES AND IN THE PRODUCTION OF TRANSGENIC PLANTS
 14 <130> FILE REFERENCE: U015575-8
 16 <140> CURRENT APPLICATION NUMBER: 10/520696
 17 <141> CURRENT FILING DATE: 2005-01-06
 19 <150> PRIOR APPLICATION NUMBER: PCT/ES03/000363
 20 <151> PRIOR FILING DATE: 2003-07-15
 22 <160> NUMBER OF SEQ ID NOS: 24
 24 <170> SOFTWARE: PatentIn version 3.3
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 15
 28 <212> TYPE: PRT
 29 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature
 34 <223> OTHER INFORMATION: N-terminal end of soluble NPPase
 36 <400> SEQUENCE: 1
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 39 1 5 10 15
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 11
 44 <212> TYPE: PRT
 45 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT
 48 <220> FEATURE:
 49 <221> NAME/KEY: misc_feature
 50 <223> OTHER INFORMATION: Tryptic sequence of soluble NPPase
 52 <220> FEATURE:
 53 <221> NAME/KEY: MISC_FEATURE
 54 <222> LOCATION: (6)..(6)
 55 <223> OTHER INFORMATION: Lys (variation)
 57 <220> FEATURE:
 58 <221> NAME/KEY: MISC_FEATURE
 59 <222> LOCATION: (9)..(9)
 60 <223> OTHER INFORMATION: Ile (variation)
 62 <220> FEATURE:
 63 <221> NAME/KEY: MISC_FEATURE

Does Not Comply
Corrected Diskette Needed

pp 1-3

"Gln" is at location 6. Gln can only represent
 itself. Use "Xaa" instead, and
 explain in <2207-2223>
 section that it can
 represent either Gln
 or Lys.
 use Xaa
 same
 as above

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64 <222> LOCATION: (10)..(10)

65 <223> OTHER INFORMATION: Lys (variation)

67 <400> SEQUENCE: 2

69 Ala Ser Tyr Pro Gly Gln Thr Ser Leu Gln Arg

70 1 5 10

73 <210> SEQ ID NO: 3

74 <211> LENGTH: 11

75 <212> TYPE: PRT

76 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT

79 <220> FEATURE:

80 <221> NAME/KEY: misc_feature

81 <223> OTHER INFORMATION: Tryptic sequence of soluble NPPase

83 <220> FEATURE:

84 <221> NAME/KEY: MISC_FEATURE

85 <222> LOCATION: (9)..(9)

86 <223> OTHER INFORMATION: Met (variation)

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90 His Ala Pro Ala Asp Thr Val Thr Phe Gly Arg

91 1 5 10

94 <210> SEQ ID NO: 4

95 <211> LENGTH: 5

96 <212> TYPE: PRT

97 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT

100 <220> FEATURE:

101 <221> NAME/KEY: misc_feature

102 <223> OTHER INFORMATION: Tryptic sequence of soluble NPPase

104 <400> SEQUENCE: 4

106 Ala Pro Pro Tyr Pro

107 1 5

110 <210> SEQ ID NO: 5

111 <211> LENGTH: 8

112 <212> TYPE: PRT

113 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT

116 <220> FEATURE:

117 <221> NAME/KEY: misc_feature

118 <223> OTHER INFORMATION: Tryptic sequence of soluble NPPase

120 <400> SEQUENCE: 5

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123 1 5

126 <210> SEQ ID NO: 6

127 <211> LENGTH: 8

128 <212> TYPE: PRT

129 <213> ORGANISM: HORDEUM VULGARE CV. SCARLETT

132 <220> FEATURE:

133 <221> NAME/KEY: MISC_FEATURE

134 <223> OTHER INFORMATION: Tryptic sequence of soluble NPPase

136 <220> FEATURE:

137 <221> NAME/KEY: MISC_FEATURE

138 <222> LOCATION: (1)..(1)

*use Xaa and explain**Use Xaa and explain*

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Input Set : A:\u015575-8sequence listing.txt

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 142 <221> NAME/KEY: MISC_FEATURE
 143 <222> LOCATION: (3)..(3)
 144 <223> OTHER INFORMATION: Ile (variation) *use Xaa*
 146 <220> FEATURE:
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 148 <222> LOCATION: (6)..(6)
 149 <223> OTHER INFORMATION: Ile (variation)
 151 <400> SEQUENCE: 6
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 154 1 5
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 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature
 165 <223> OTHER INFORMATION: N-terminal end of soluble NPPase
 167 <400> SEQUENCE: 7
 169 Gly Ser Ala Phe Val Ser Ala Thr Pro Ala Leu Leu Gly Asp Gln
 170 1 5 10 15
 173 <210> SEQ ID NO: 8
 174 <211> LENGTH: 23
 175 <212> TYPE: PRT
 176 <213> ORGANISM: ORYZA SATIVA
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 181 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
 183 <400> SEQUENCE: 8
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 186 1 5 10 15
 189 Gly Gly Leu Glu Asn Pro Lys
 190 20
 193 <210> SEQ ID NO: 9
 194 <211> LENGTH: 11
 195 <212> TYPE: PRT
 196 <213> ORGANISM: ORYZA SATIVA
 199 <220> FEATURE:
 200 <221> NAME/KEY: misc_feature
 201 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
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 206 1 5 10
 209 <210> SEQ ID NO: 10
 210 <211> LENGTH: 10
 211 <212> TYPE: PRT
 212 <213> ORGANISM: ORYZA SATIVA
 215 <220> FEATURE:

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216 <221> NAME/KEY: misc_feature
217 <223> OTHER INFORMATION: Tryptic sequence (Edman) of soluble NPPase
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221 Leu Ala Gln Gly Lys Ser Tyr Asp Glu Met
222 1 5 10
225 <210> SEQ ID NO: 11
226 <211> LENGTH: 10
227 <212> TYPE: PRT
228 <213> ORGANISM: ORYZA SATIVA
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
235 <400> SEQUENCE: 11
237 Thr Ala Ala Gly Thr Leu Thr Phe Asn Arg
238 1 5 10
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 11
243 <212> TYPE: PRT
244 <213> ORGANISM: ORYZA SATIVA
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
249 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
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253 Asp Pro Gly Phe Leu His Thr Ala Phe Leu Arg
254 1 5 10
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258 <211> LENGTH: 12
259 <212> TYPE: PRT
260 <213> ORGANISM: ORYZA SATIVA
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
267 <400> SEQUENCE: 13
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270 1 5 10
273 <210> SEQ ID NO: 14
274 <211> LENGTH: 9
275 <212> TYPE: PRT
276 <213> ORGANISM: ORYZA SATIVA
279 <220> FEATURE:
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281 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
283 <400> SEQUENCE: 14
285 Ile Ile Val Phe Gly Asp Met Gly Lys
286 1 5
289 <210> SEQ ID NO: 15
290 <211> LENGTH: 12
291 <212> TYPE: PRT
292 <213> ORGANISM: ORYZA SATIVA

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295 <220> FEATURE:
296 <221> NAME/KEY: misc_feature
297 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
299 <400> SEQUENCE: 15
301 Asp Trp Pro Asn Thr Gly Gly Phe Phe Asp Val Lys
302 1          5          10
305 <210> SEQ ID NO: 16
306 <211> LENGTH: 11
307 <212> TYPE: PRT
308 <213> ORGANISM: ORYZA SATIVA
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
313 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
315 <400> SEQUENCE: 16
317 Phe Ile Glu Gln Cys Leu Ser Thr Val Asp Arg
318 1          5          10
321 <210> SEQ ID NO: 17
322 <211> LENGTH: 9
323 <212> TYPE: PRT
324 <213> ORGANISM: ORYZA SATIVA
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <223> OTHER INFORMATION: Tryptic sequence (MS/MS) of soluble NPPase
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334 1          5
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340 <213> ORGANISM: ORYZA SATIVA
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344 <221> NAME/KEY: misc_feature
345 <223> OTHER INFORMATION: Primer of the 5' region of NPPase
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351 <210> SEQ ID NO: 19
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353 <212> TYPE: DNA
354 <213> ORGANISM: ORYZA SATIVA
357 <220> FEATURE:
358 <221> NAME/KEY: misc_feature
359 <223> OTHER INFORMATION: Primer of the 3' region of NPPase
361 <400> SEQUENCE: 19
362 gaggcgagcg tgggtgggga
365 <210> SEQ ID NO: 20
366 <211> LENGTH: 2186
367 <212> TYPE: DNA
368 <213> ORGANISM: ORYZA SATIVA
371 <220> FEATURE:

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19

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/520,696

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Input Set : A:\u015575-8sequence listing.txt

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